



*Ifw/2683*

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Sang-hyun WOO, et al.

Serial No. 10/616,043

Filed: July 10, 2003

For: MULTI-BAND RF RECEIVING METHOD AND  
APPARATUS IN MOBILE COMMUNICATION  
SYSTEM

Notice of Allowance Mailed:  
July 13, 2005

*Previously Pending in*  
Art Unit 2683

Examiner: Wm. D. Cumming

*Confirmation No. 9798*

**REQUEST FOR ENTRY OF PREVIOUSLY SUBMITTED**  
**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 C.F.R. §1.56**

Mail Stop: ISSUE FEE  
Commissioner for Patents  
Alexandria, VA 22313-1450

Sir:

An Information Disclosure Statement ("IDS") was timely filed on July 10, 2003. A copy of the USPTO receipt evidencing the timely filing of the IDS is attached. It is noted that this IDS is present in the Image File Wrapper and is noted on the Transaction History for this application as it appears PAIR. Copies of the relevant pages from PAIR and a print-out of the IDS taken from PAIR are attached.

To date the Examiner has not acknowledged receipt and entry of the reference identified therein.

Applicant respectfully requests that the listed document(s) be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO-1449 be returned in accordance with MPEP §609.

Respectfully submitted,

July 22, 2005  
Date

  
Eugene M. Lee, Registration No. 32,039

**LEE & MORSE, P.C.**

1101 WILSON BOULEVARD, SUITE 2000

ARLINGTON, VA 22209

703.525.0978 TEL

703.525.4265 FAX

**DEPOSIT ACCOUNT CHARGE AUTHORIZATION**

If fee payment is enclosed, this amount is believed to be correct. However, the Director is hereby authorized to charge any deficiency or credit any overpayment to Deposit Account No. 50-1645.

Any additional fee(s) necessary to effect the proper and timely filing of the above-paper may also be charged to Deposit Account No. 50-1645.

LEE & STERBA, P.C.

249/384

The "Received" stamp of the U.S. Patent & Trademark Office hereon acknowledges receipt of the accompanying Patent Application of Sang-hyun WOO, et al.

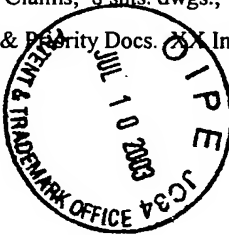
for MULTI-BAND RF RECEIVING METHOD AND APPARATUS IN MOBILE COMMUNICATION SYSTEM

Including:

28. pages of spec and Abstract; 15 Claims; 8 shs. dwgs.; XX Declaration; xx Assignment;

XX Claim for Convention Priority & Priority Docs. XX Information Disclosure Statement with PTO form 1449 with 1 reference

Other





249/384

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent application of

Sang-hyun WOO, et al.

Group Art Unit: (Unassigned)

Serial No. (Unassigned)

Examiner: (Unassigned)

Filed: Concurrently

For: MULTI-BAND RF RECEIVING METHOD AND APPARATUS IN MOBILE  
COMMUNICATION SYSTEM

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 C.F.R. §1.56**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA. 22313-1450

Sir:

Submitted herewith on Form PTO-1449 is a listing of a document known to applicants in order to comply with applicants' duty of disclosure pursuant to 37 C.F.R. §1.56.

A copy of the listed document is being submitted to comply with the provisions of 37 C.F.R. §§1.97 & 1.98.

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application. Applicant does not waive any rights to take any action which would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a prima facie prior art reference against the claims of the present application.


CONCISE EXPLANATION OF  
RELEVANCE OF EACH DOCUMENT

The listed document is being submitted in compliance with 37 C.F.R. 1.97(b)(1), submission within three months of the filing date of the application.

Applicants respectfully request that the listed document be considered by the Examiner and be made of record in the present application and that an initialed copy of Form PTO-1449 be returned in accordance with MPEP §609.

Respectfully submitted,

Date: July 10, 2003

  
Eugene M. Lee, Reg. No. 32,039  
Richard A. Sterba, Reg. No. 43,162

LEE & STERBA, P.C.  
1101 WILSON BOULEVARD, SUITE 2000  
ARLINGTON, VA 22209  
703.525.0978 TEL  
703.525.4265 FAX

PETITION and DEPOSIT ACCOUNT CHARGE AUTHORIZATION

This document and any concurrently filed papers are believed to be timely. Should any extension of the term be required, applicant hereby petitions the Director for such extension and requests that any applicable petition fee be charged to Deposit Account No. 50-1645.

If fee payment is enclosed, this amount is believed to be correct. However, the Director is hereby authorized to charge any deficiency or credit any overpayment to Deposit Account No. 50-1645.

Any additional fee(s) necessary to effect the proper and timely filing of the the accompanying-papers may also be charged to Deposit Account No. 50-1645.

FORM PTO 1449 (modified)

U.S. DEPARTMENT OF COMMERCE

ATTY DOCKET NO.

249/384

SERIAL NO.

**SERIAL NO.**  
**Unassigned**

**APPLICANT**

Sang-hyun WOO et al.

FILING DATE

**Concurrently**

GROUP

Unassigned

U.S. PATENT DOCUMENTS

[illegible]

## FOREIGN PATENT DOCUMENTS

[illegible]

OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)


**EXAMINER**

DATE CONSIDERED

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



## United States Patent and Trademark Office

[Home](#) | [Site Index](#) | [Search](#) | [FAQ](#) | [Glossary](#) | [Guides](#) | [Contacts](#) | [eBusiness](#) | [eBiz Alerts](#) | [News](#) | [Help](#)

## Portal Home

## Patent Applications

[Patent Application Information \(PAIR\)](#)  
[PAIR Frequently Asked Questions](#)  
[PAIR Help](#)
[Search Class/Subclass/GAU](#)
[Manual of Patent Classification](#)

## Secure eBusiness

[Patent EBC](#)
[Customer Numbers](#)
[Digital Certificates](#)
[Electronic Filing](#)
[Private PAIR](#)
[Glossary](#)
[Patent eBusiness Support/Help](#)
[System Alerts](#)
[Viewer Download: PDF](#)

## Patent Information

[About Patents](#)
[Manual of Patent Examining Procedure](#)
[Patent Assistance Center](#)
[Employee Locator Search](#)
[Valid Location Codes](#)
[Telephone Directory](#)
[Fees](#)
[Pay online \(RAM\)](#)
[Inventor Resources](#)
[News, Federal Register & OG Notices](#)
[PTDL Program - libraries near](#)
[you](#)
[Registered Patent Attorneys & Agents](#)

## Patent Searches

[Search Patents/Patent Applications - full text & images](#)
[How to View Patent Images](#)

## Patent Application Information Retrieval

Select Search Method:

 Application Number 

Enter Number:

SUBMIT

[Order Certified Application As Filed](#)
[Order Certified File Wrapper](#)
[View Order List](#)

## 10/616,043 MULTI-BAND RF RECEIVING METHOD AND APPARATUS IN MOBILE COMMUNICATION SYSTEM

Application Data	Transaction History	Image File Wrapper	Patent Term Adjustments	Foreign Priority	Published Documents	Publication Dates	Address & Attorney/Agent
------------------	---------------------	--------------------	-------------------------	------------------	---------------------	-------------------	--------------------------

This application is officially maintained in electronic form. To View: Click the desired Document Description. To Down Print: Check the desired document(s) and click StartDownload.

Mail Room Date	Document Description	Page Count	Select All	Start Download
07-13-2005	<a href="#">Notice of Allowance and Fees Due (PTOL-85)</a>	3	<input type="checkbox"/>	<input type="checkbox"/>
07-13-2005	<a href="#">Notice of Allowance and Fees Due (PTOL-85)</a>	6	<input type="checkbox"/>	<input type="checkbox"/>
07-13-2005	<a href="#">List of references cited by examiner</a>	1	<input type="checkbox"/>	<input type="checkbox"/>
07-13-2005	<a href="#">Foreign Reference</a>	18	<input type="checkbox"/>	<input type="checkbox"/>
07-13-2005	<a href="#">List of References cited by applicant and considered by examiner</a>	1	<input type="checkbox"/>	<input type="checkbox"/>
07-13-2005	<a href="#">Issue Information including classification, examiner, name, claim, renumbering, etc.</a>	1	<input type="checkbox"/>	<input type="checkbox"/>
<a href="#">Search information including</a>				

## Search Assignments - ownership

Search International Patents  
 Other Search Resources & Tips  
 Sequence Searches (biotech)  
 Software for Sequence Listings

## Order Copies &amp; Publications

Products & Services

## Other

Copyrights  
 Policy & Law  
 Reports  
 Trademarks

1 - ☐

**classification, databases and other  
 search related notes**

**07-13-2005** **1** ☐

**01-06-2004** **4** ☐

**01-06-2004** **15** ☐

**01-06-2004** **15** ☐

**01-06-2004** **18** ☐

**01-06-2004** **3** ☒

**07-10-2003** **2** ☐

**07-10-2003** **21** ☐

**07-10-2003** **6** ☐

**07-10-2003** **1** ☐

**07-10-2003** **8** ☐

**07-10-2003** **2** ☐

**07-10-2003** **3** ☐

**07-10-2003** **29** ☐

**07-10-2003** **1** ☐

**07-10-2003** **1** ☐

**Foreign Reference**

**Foreign Reference**

**Foreign Reference**

**NPL Documents**

**Transmittal letter**

**Specification**

**Claims**

**Abstract**

**Drawings**

**Oath or Declaration filed**

**Information Disclosure Statement (IDS)  
 Filed**

**Foreign Priority Papers Filed**

**Fee Worksheet (PTO-875)**

**Fee Worksheet (PTO-875)**

The Patent Electronic Business Center is available to assist with PAIR questions at (866) 217-9197 (toll free) or EBC@

[Home](#) | [Site Index](#) | [Search](#) | [eBusiness](#) | [Help](#) | [Privacy Policy](#)





## United States Patent and Trademark Office

[Home](#) | [Site Index](#) | [Search](#) | [FAQ](#) | [Glossary](#) | [Guides](#) | [Contacts](#) | [eBusiness](#) | [eBiz Alerts](#) | [News](#) | [Help](#)

## Portal Home

## Patent Applications

[Patent Application Information \(PAIR\)](#)  
[PAIR Frequently Asked Questions](#)  
[PAIR Help](#)[Search Class/Subclass/GAU](#)[Manual of Patent Classification](#)

## Secure eBusiness

[Patent EBC](#)[Customer Numbers](#)[Digital Certificates](#)[Electronic Filing](#)[Private PAIR](#)

## Glossary

[Patent eBusiness Support/Help](#)[System Alerts](#)[Viewer Download: PDF](#)

## Patent Information

[About Patents](#)[Manual of Patent Examining Procedure](#)[Patent Assistance Center](#)[Employee Locator Search](#)[Valid Location Codes](#)[Telephone Directory](#)[Fees](#)[Pay online \(RAM\)](#)[Inventor Resources](#)[News, Federal Register & OG Notices](#)[PTDL Program - libraries near you](#)[Registered Patent Attorneys & Agents](#)

## Patent Searches

[Search Patents/Patent Applications - full text & images](#)[How to View Patent Images](#)

## Patent Application Information Retrieval

## Select Search Method:

Application Number 

## Enter Number:

SUBMIT

[Order Certified Application As Filed](#)[Order Certified File Wrapper](#)[View Order List](#)

## 10/616,043 MULTI-BAND RF RECEIVING METHOD AND APPARATUS IN MOBILE COMMUNICATION SYSTEM

Application Data	Transaction History	Image File Wrapper	Patent Term Adjustments	Foreign Priority	Published Documents	Publication Dates	Address & Attorney/Agent
------------------	---------------------	--------------------	-------------------------	------------------	---------------------	-------------------	--------------------------

Date	Contents Description
07-13-2005	Mail Notice of Allowance
06-16-2005	Issue Revision Completed
06-16-2005	Notice of Allowance Data Verification Completed
06-16-2005	Notice of Allowability
04-15-2005	Case Docketed to Examiner in GAU
01-25-2005	Case Docketed to Examiner in GAU
08-19-2004	Case Docketed to Examiner in GAU
06-01-2004	Case Docketed to Examiner in GAU
01-06-2004	Reference capture on IDS
01-06-2004	Information Disclosure Statement (IDS) Filed
07-10-2003	Reference capture on IDS
07-10-2003	Information Disclosure Statement (IDS) Filed
07-10-2003	Reference capture on IDS
07-10-2003	Information Disclosure Statement (IDS) Filed
07-10-2003	Request for Foreign Priority (Priority Papers May Be Included)
03-15-2004	IFW TSS Processing by Tech Center Complete

Search Assignments - ownership  
 Search International Patents  
 Other Search Resources & Tips  
 Sequence Searches (biotech)  
 Software for Sequence Listings

Order Copies & Publications  
 Products & Services

Other

Copyrights  
 Policy & Law  
 Reports  
 Trademarks



03-15-2004	IFW TSS Processing by Tech Center Complete
03-09-2004	Case Docketed to Examiner in GAU
10-14-2003	Application Return from OIPE
10-15-2003	Application Is Now Complete
10-15-2003	Pre-Exam Office Action Withdrawn
10-14-2003	Application Return TO OIPE
10-14-2003	Application Dispatched from OIPE
10-15-2003	Application Is Now Complete
09-26-2003	Cleared by OIPE CSR
09-26-2003	Cleared by OIPE CSR
09-26-2003	Cleared by OIPE CSR
09-03-2003	IFW Scan & PACR Auto Security Review
07-10-2003	Initial Exam Team nn

The Patent Electronic Business Center is available to assist with PAIR questions at (866) 217-9197 (toll free) or EBC@

[Home](#) | [Site Index](#) | [Search](#) | [eBusiness](#) | [Help](#) | [Privacy Policy](#)